



Attorney Docket No.: 4341P053D2

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:

Scott Adams, et al.

Application No.: 10/766,720

Filed: January 27, 2004

For: ELECTROSTATIC ACTUATOR
FOR MICROELECTROMECHANICAL
SYSTEMS AND METHODS OF
FABRICATION

Examiner: Tamai, Karl I.

Art Unit: 2834

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

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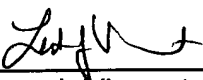
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If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: November 10, 2005



Lester J. Vincent
Reg. No. 31,460

12400 Wilshire Boulevard
Seventh Floor
Los Angeles, California 90025
(403) 720-8300

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INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

(use as many sheets as necessary)



Sheet 1 of 14 Attorney Docket Number 4341P053D2

Complete if Known

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 First Named Inventor: Scott Adams
 Art Unit 2834
 Examiner Name Tamai, Karl I.
 Attorney Docket Number 4341P053D2

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If known)				
		US-	3,493,820	2/3/1970	Rosvold	
		US-	4,104,086	8/1/1978	Bondur et al.	
		US-	4,421,381	12/20/1983	Ueda et al.	
		US-	4,509,249	4/9/1985	Goto et al.	
		US-	4,519,128	5/28/1985	Chesebro et al.	
		US-	4,553,436	11/19/1985	Hansson	
		US-	4,571,819	2/25/1986	Rogers et al.	
		US-	4,613,203	9/23/1986	Proetel et al.	
		US-	4,670,092	6/2/1987	Motamedi	
		US-	4,688,069	8/18/1987	Joy et al.	
		US-	4,706,374	11/17/1987	Murakami	
		US-	4,738,500	4/19/1988	Grupp et al.	
		US-	4,784,720	11/15/1988	Douglas	
		US-	4,855,017	8/8/1989	Douglas	
		US-	4,876,217	10/24/1989	Zdebel	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
		DE	19757171 A1	7/1/1999	Bosch		
		DE	19800745 A1	7/15/1999	Bosch		
		EP	0 813 089 A2	12/17/1997	Choi et al.		
		EP	0 834759 A2	4/8/1998	Dhuler, et al.		
		EP	0 980014 A1	2/16/2000	Meier, et al.		

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Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/766,720
				Filing Date	January 27, 2004
				First Named Inventor:	Scott Adams
				Art Unit	2834
				Examiner Name	Tamai, Karl I.
Sheet	2	of	14	Attorney Docket Number	4341P053D2

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		Number-Kind Code ² (If known)				
		US-	5,068,203	11/26/1991	Logsdon et al.	
		US-	5,083,857	1/28/1992	Hornbeck	
		US-	5,097,354	3/17/1992	Goto	
		US-	5,172,262	12/15/1992	Hornbeck	
		US-	5,198,390	3/30/1993	MacDonald et al.	
		US-	5,203,208	4/20/1993	Bernstein	
		US-	5,226,321	7/13/1993	Varnham et al.	
		US-	5,235,187	8/10/1993	Arney et al.	
		US-	5,316,979	5/31/1994	MacDonald et al.	
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		US-	5,393,375	2/28/1995	MacDonald et al.	
		US-	5,397,904	3/14/1995	Arney et al.	
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		US-	5,426,070	6/20/1995	Shaw et al.	

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
		EP	1 120677 A2	8/1/2001	Wood et al.		
		GB	2 175 705 A	12/3/1986	Greenwood et al.		
		GB	2 239 101 A	6/19/1991	Rowe		
		JP	60-107017	6/12/1985	Tanabe et al.		
		JP	4-343318 A	11/30/1992	Nakagawa et al.		

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Examiner Name	Tamai, Karl I.
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Sheet	3	of	14
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		Number-Kind Code ² (if known)				
		US-	5,427,975	6/27/1995	Sparks et al.	
		US-	5,428,259	6/27/1995	Suzuki	
		US-	5,449,903	9/12/1995	Arney et al.	
		US-	5,454,906	10/3/1995	Baker et al.	
		US-	5,463,246	10/31/1995	Matsunami	
		US-	5,485,039	1/16/1996	Fujita et al.	
		US-	5,488,862	2/6/1996	Neukermans et al.	
		US-	5,501,893	3/26/1996	Laermer et al.	
		US-	5,506,175	4/9/1996	Zhang et al.	
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		US-	5,554,304	9/10/1996	Suzuki	
		US-	5,563,343	10/8/1996	Shaw et al.	
		US-	5,599,744	2/4/1997	Koh et al.	
		US-	5,600,383	2/4/1997	Hornbeck	
		US-	5,608,264	3/4/1997	Gaul	

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
		JP	5-107485 A		4/30/1993	Koyabu et al.		
		JP	6-180428		6/28/1994	Toyoda et al.		
		JP	5-55401 A					
		WO	94/18697		8/18/1994	Shaw et al.		
		WO	97/04283		2/6/1997	Miller et al.		

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		Number-Kind Code ² (If known)				
		US-	5,610,335	3/11/1997	Shaw et al.	
		US-	5,611,888	3/18/1997	Bosch et al.	
		US-	5,611,940	3/18/1997	Zettler	
		US-	5,628,917	5/13/1997	MacDonald et al.	
		US-	5,629,790	5/13/1997	Neukermans et al.	
		US-	5,637,189	6/10/1997	Peeters et al.	
		US-	5,642,015	6/24/1997	Whitehead et al.	
		US-	5,645,684	7/8/1997	Keller	
		US-	5,646,067	7/8/1997	Gaul	
		US-	5,648,618	7/15/1997	Neukermans et al.	
		US-	5,673,139	9/30/1997	Johnson	
		US-	5,682,062	10/28/1997	Gaul	
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		US-	5,703,728	12/30/1997	Smith et al.	
		US-	5,719,073	2/17/1998	Shaw et al.	

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
			WO 99/36941		7/22/1999	Adams et al.		
			WO 99/36948		7/22/1999	Adams et al.		
			WO 99/67666		12/29/1999	Laor		
			WO 01/33898 A2		5/10/2001	Ramaswami et al.		
			WO 01/39413 A2		5/31/2001	Ramaswami et al.		

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		US-	5,726,073	3/10/1998	Zhang et al.	
		US-	5,759,913	6/2/1998	Fulford, Jr. et al.	
		US-	5,770,465	6/23/1998	MacDonald et al.	
		US-	5,784,187	7/21/1998	Cunningham et al.	
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		US-	5,846,849	12/8/1998	Shaw et al.	
		US-	5,847,454	12/8/1998	Shaw et al.	
		US-	5,853,959	12/29/1998	Brand et al.	
		US-	5,912,094	6/15/1999	Aksyuk et al.	
		US-	5,912,608	6/15/1999	Asada	
		US-	5,915,168	6/22/1999	Salatino et al.	
		US-	5,920,417	7/6/1999	Johnson	
		US-	5,933,746	8/3/1999	Begley et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 01/57902 A2	8/9/2001	Adams et al.		

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		US-	5,969,848	10/19/1999	Lee et al.	
		US-	5,973,396	10/26/1999	Farnworth	
		US-	5,998,816	12/7/1999	Nakaki et al.	
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		US-	5,999,303	12/7/1999	Drake	
		US-	6,000,280	12/14/1999	Miller et al.	
		US-	6,020,272	2/1/2000	Fleming	
		US-	6,028,689	2/22/2000	Michalicek et al.	
		US-	6,040,935	3/21/2000	Michalicek	
		US-	6,044,705	4/4/2000	Nuekermans et al.	
		US-	6,066,265	5/23/2000	Galvin et al.	
		US-	6,072,617	6/6/2000	Henck	
		US-	6,075,639	6/13/2000	Kino et al.	
		US-	6,078,016	6/20/2000	Yoshikawa et al.	
		US-	6,097,858	8/1/2000	Laor	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/766,720
Filing Date	January 27, 2004
First Named Inventor:	Scott Adams
Art Unit	2834
Examiner Name	Tamai, Karl I.
Attorney Docket Number	4341P053D2

Sheet	7	of	14
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Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If known)				
		US-	6,097,859	8/1/2000	Solgaard et al.	
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		US-	6,101,299	8/8/2000	Laor	
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		US-	6,626,039 B1	9/30/2003	Adams et al.	
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		US-	6,706,200 B2	3/16/2004	Moon et al.	

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Attorney Docket Number	4341P053D2

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		Timothy J. Broshnihan, James M. Bustillo, Albert P. Pisano & Roger T. Howe, "Embedded Interconnect & Electrical Isolation for High-Aspect-Ratio, SOI Inertial Instruments," Berkeley Sensor & Actuator Sensor, pp. 637-640, Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators (Chicago, June 16-19, 1997)			
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		M. Adrian Michalicek, Wenge Zhang, Kevin F. Harsh, Victor M. Bright, and Y.C. Lee, "Micromirror Arrays Fabricated by Flip-Chip Assembly," Part of the SPIE Conference on Miniaturizes Systems with Micro-Optics and MEMs, Santa Clara, SPIE Vol. 3878, pp. 68-79 (September 1999)			
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Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/766,720
				Filing Date	January 27, 2004
				First Named Inventor:	Scott Adams
				Art Unit	2834
				Examiner Name	Tamai, Karl I.
Sheet	14	of	14	Attorney Docket Number	4341P053D2
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
		G. K. Fedder, S. Santhanam, M. L. Reed, S. C. Eagle, D. F. Guillou, M. S.-C. Lu, and L. R. Carley, "Laminated High-Aspect-Ratio Microstructures In A Conventional CMOS Process," Proceedings of the IEEE Micro Electro Mechanical Systems Workshop, San Diego, CA, pp. 13-18 (February 1996)			
		PCT Notification of Transmittal of The International Search Report or The Declaration for PCT Counterpart Application No. PCT/US01/03760 Containing International Search Report (September 5, 2001)			
		PCT Notification of Transmittal of International Preliminary Examination Report for PCT Counterpart Application No. PCT/US01/03760, 5 pgs. (January 29, 2002)			

Examiner Signature		Date Considered	
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Summary of USPTO Kind Codes Used on Documents Published Beginning January 2, 2001

WIPO ST.16 Kind Codes	Kind of document	Comments
A1	Patent Application Publication	Pre-grant publication available March 2001
A2	Patent Application Publication (Republication)	Pre-grant publication available March 2001
A9	Patent Application Publication (Corrected Publication)	Pre-grant publication available March 2001
B1	Patent	No previously published pre-grant publication
B2	Patent	Having a previously published pre-grant publication and available March 2001
C1, C2, C3...	Reexamination Certificate	Previously used codes B1 and B2 are now used for granted Patents
E	Reissue Patent	No change
H	Statutory Invention Registration (SIR)	No change
P1	Plant Patent Application Publication	Pre-grant publication available March 2001
P2	Plant Patent	No previously published pre-grant publication
P3	Plant Patent	Having a previously published pre-grant publication and available March 2001
P4	Plant Patent Application Publication (Republication)	Pre-grant publication available after March 2001
P9	Plant Patent Application Publication (Corrected Publication)	Pre-grant publication available March 2001
S	Design Patent	No change